

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
South 4 Group Fire - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region VI

Subject: POLREP #2
Progress
South 4 Group Fire
A6TK
Port Neches, TX
Latitude: 29.9753125 Longitude: -93.9449089

To: Anthony Buck, TCEQ
Reggie Cheatham, EPA HQ
Craig Carroll, EPA Region 6

From: Adam Adams, OSC

Date: 12/5/2019

Reporting Period: 11/28/2019 - 12/5/2019

1. Introduction

1.1 Background

Site Number:	A6TK	Contract Number:
D.O. Number:		Action Memo Date:
Response Authority:	CERCLA	Response Type:
Response Lead:		Incident Category:
NPL Status:	Non NPL	Operable Unit:
Mobilization Date:	11/27/2019	Start Date:
Demob Date:		Completion Date:
CERCLIS ID:	TXN000622111	RCRIS ID:
ERNS No.:	1264990	State Notification:
FPN#:		Reimbursable Account #:

1.1.1 Incident Category

Emergency Response; CERCLA incident category; Active Production Facility; Unified Command established.

1.1.2 Site Description

The 218-acre facility produces butadiene and raffinate. Butadiene is used in the production of synthetic rubber used for tires and automobile hoses. Combined production capacity for this facility is more than 900 million pounds per year. Logistics infrastructure capabilities include pipeline, barge, rail and tank car. The Site contains multiple storage tanks and related processing equipment.

1.1.2.1 Location

The TPC Group (TPC) Port Neches Operations facility is located at 2102 TX-136 Spur, Port Neches, Jefferson County, TX 77561 (29.978056, -93.939167).

The facility borders the Neches River to the north, which flows to Sabine Lake to the east. Residential properties reside to the northwest, west, southwest, and northeast of the site. Population estimate for Port Neches is 12,831 (US Census, population estimates, July 1, 2018, (V2018)). Port Neches Middle School is located approximately one quarter mile west of the TPC facility.

Combined production capacity for this facility is greater than 900 million pounds per year. Logistics infrastructure capabilities include pipeline, barge, rail and tank car. Treated waste water is discharged from the on-site joint waste water treatment plant (JWWTP) direct to the Neches River.

1.1.2.2 Description of Threat

On 27 November 2019, at approximately 01:00, an explosion was reported at the TPC Group Port Neches Operations site involving a processing unit. The explosion and subsequent fires resulted in the unregulated release of hazardous materials into the atmosphere and waterways (through fire fighting waters). The facility reported the primary constituent of concern was 1,3-butadiene.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Due to the instability of the Site on the morning of November 27, 2019, which includes active fires, the possibility of additional explosions, and limited ability to conduct a detailed status assessment of the tanks, towers, and contents in each after the incident began, on-site preliminary assessment efforts by Unified Command were based on facility generator knowledge and remote monitoring.

2. Current Activities

2.1 Operations Section

The actions discussed below have been previously discussed under the initial POLREP that covered the actions conducted since the incident began at 01:00 on 27 November 2019 to 06:00 on 28 November 2019.

2.1.1 Narrative

Following the initial explosion, local responders from the Sabine Naches Chiefs Association (SNCA) responded along with TPC Group and multiple other first responder agencies to assess and secure the incident. TPC notified the National Response Center (NRC 1264990) at approximately 04:39. EPA, Texas Commission on Environmental Quality (TCEQ), US Coast Guard (USCG), and many other agencies mobilized to respond to the incident. USCG was the first federal agency on-site, and transitioned federal oversight to EPA at approximately 09:00 on November 27, 2019. Due to jurisdictional boundaries, EPA took the lead with support from USCG.

The day of the incident Unified Command established the following air monitoring action levels. The action levels were all based upon collecting a sustained reading of 5 minutes. If any representative under Unified Command recorded an exceedance above the action level a strike team would be sent to the location to confirm the reading.

- Volatile Organic Compounds (VOCs) at 5 parts per million (ppm)
- 1,3-butadiene at 0.5 ppm
- Particulate Matter (PM 2.5) at 138 ug/m

Following further discussion among Unified Command on 04 December 2019, an additional, school-specific, action level was developed for 1,3-butadiene that could be utilized for the Jefferson County Judge's Office to recommend schools to shelter-in-doors or evacuate, if the reading was sustained for 10 minutes.

- 1,3-butadiene at 1.5 ppm

27 November 2019 01:00 – 28 November 2019 06:00

At approximately 01:00, an explosion was reported at the TPC Group Port Neches Operations, and caused a fire to start in Block 5 of the processing unit. TPC reported that following the explosion there was an active release of 1,3-butadiene, a colorless, noncorrosive, highly flammable gas. The butadiene provided a source of fuel and allowed the fire to grow in intensity. An evacuation radius of 0.5 mile was established shortly after the initial explosion, and a shelter in place was issued for the City of Groves, due to its location downwind of the facility. It was reported that the shockwave from the explosion had blown out windows in properties a few miles away from the facility. During the time period that the incident began, schools within Port Neches-Groves Independent School District (ISD) were closed due to Thanksgiving break.

TPC Group activated its Emergency Response Plan, and requested assistance from Port Neches Fire Department, the Huntsman Corporation, and SNCA. Local, state, and federal authorities were also notified of the incident shortly after it occurred. TPC notified the NRC at approximately 04:39. At approximately 02:00, an Emergency Operations Center (EOC) was established at the Huntsman Administrative Building at 2701 TX-136, Port Neches, TX.

A Region 6 EPA On-Scene Coordinator (OSC) was activated to respond to the incident, and at approximately 02:45 activated the EPA Superfund Technical Assessment Response Team (START). START arrived onsite at approximately 05:30 to begin handheld air monitoring in the vicinity of the incident site, and within the downwind community. At approximately 08:00 the EPA's Airborne Spectral Photometric Environmental Collection Technology (ASPECT) arrived onsite to conduct airborne real-time chemical and radiological detection, as well as, infrared and photographic imagery of the incident and downwind community. At 10:00 the EPA OSC arrived at the incident and assumed the role of Federal OSC upon integration into the established Unified Command among other federal (USCG), local (Jefferson County Emergency Management, Port Neches Fire Department, SNCA), state (TCEQ, General Land Office (GLO)) and TPC partners.

Beginning at 06:00 on 27 November 2019 through 28 November 2019, EPA conducted handheld air monitoring at 85 locations in the communities surrounding the TPC Group facility. The air monitoring results were reported below the detection limit at all locations for total VOCs and for 1,3-butadiene. ASPECT conducted three flights on 27 November 2019, and did not detect the presence of any chemicals on flights #1 – 3.

The TCEQ deployed personnel and contractors to the incident site and began handheld air monitoring within the communities downwind of the incident in conjunction with EPA response efforts at approximately 06:00 .

On behalf of TPC, Center for Toxicology and Environmental Health LLC (CTEH) conducted perimeter air monitoring of the incident site. From the beginning of the incident on 27 November 2019 to 28 November 2019 (06:00), CTEH air monitoring teams collected approximately 442 air monitor readings specific for 1,3-butadiene in the community and 9 readings in the work area. CTEH air monitoring teams detected 1,3-butadiene at 11 readings in the community. The average detection and maximum concentration in the community was 0.160 ppm and 0.210 ppm, respectively. There were no detections in the community above the UC action levels.

CTEH air monitoring teams detected 1,3-butadiene at 3 locations in the work area. The average detection and maximum concentration in the work area was 0.913 ppm and 1.260 ppm, respectively.

CTEH collected ambient air sampling within the 4-mile radius evacuation and surrounding areas on 27 November 2019. Unified Command established that any reading above the action level would result in personnel from EPA, TCEQ, CTEH to be dispatched as to follow up and conduct additional air monitoring at locations where the action level had been exceeded for the five minute sustained period.

On the morning of 27 November, USCG established a Water Safety Zone from Nechoes River Light 20 (Fina Lower Anchorage) to Nechoes River Light 29 (Phillips 66). USCG allowed barge traffic to move along the river, following an inspection one at a time. At approximately 10:00 TPC communicated that a no-fly zone (NFZ) had been established 3 miles wide and 3,000 feet high surrounding the incident site, and any flight requests in the area would have to be communicated through Jack Brooks Regional Airport. Two towers in the TPC facility, 2D-8 and S-45 had been determined to have fallen due to fire damage on the morning of 27 November.

At approximately 13:48, a second explosion occurred at the incident site. After the second explosion, the Jefferson County Judge's Office expanded the mandatory evacuation zone to a 4-mile radius.

The original EOC fell inside the evacuation zone and was moved from the Huntsman Administrative Building at 2701 TX-136, Port Neches, TX to ISTC Building 3749 US-69 Beaumont, TX at 17:00, before UC decided to select another location. The EOC was re-established at the Holiday Inn – Beaumont in the Galveston Room at approximately 17:51. Onsite response efforts and downwind community air monitoring continued overnight. Following the evacuation order, the Red Cross of Southeast Texas established an evacuation shelter at Ford Park at approximately 19:00.

During the initial fire-fighting response on 27 November, foam was utilized from approximately six 330-gallon totes. It was later determined that the amount of foam utilized totaled 1,320 gallons and the Safety Data Sheets for the foam used indicated that the foam contained per- and polyfluoroalkyl substances (PFAS) compounds.

2.1.2 Response Actions to Date (28 November 06:00 – 05 December 2019 06:00)

28 November 2019 06:00 to 29 November 2019 06:00

Unified Command

Unified Command carried out plans agreed upon in Incident Action Plan (IAP) – Period 1.

Response operations have operated continuously since the incident began on 27 November at 01:00. Unified Command determined to institute a 06:00 to 06:00 operational period beginning on 28 November 2019.

As of 06:30, the website, www.portnechesresponse.com, was public and served a resource for the public to find information regarding the response to the incident.

Fire Response

During firefighting efforts on 28 November, operations applied approximately 36,000 gallons per minute (GPM) (approximately 50 million gallon/day) of water to the ongoing fires in Block 5. Three fire trucks and water cannons at 7 remote fire monitoring stations were utilized for fire suppression.

TPC deployed personnel to connect generators that would return power to the joint wastewater treatment plant (JWWTP), and transport firefighting runoff water from onsite storage ponds to the JWWTP. Due to lack of onsite electrical power, the JWWTP reached capacity. As a result, water was discharged from Outfall 201, into a canal that flows into the Neches River, 3 miles downstream. At approximately 11:00, TPC observed sheen downstream of Outfall 201 with the assistance of unmanned aerial drones. TPC activated Clean Harbors and Resolute Environmental and Response Services to respond to the hydrocarbon release, and absorbent boom was placed in strategic locations. At approximately 19:40, TPC restored electrical power to the JWWTP, and began to pump water from surrounding storage and treatment ponds to the JWWTP at 5,000 GPM.

During the response NOAA provided remote support and plume model forecasts. The NOAA model forecasted that the main trajectory of the smoke plume would move westward across the Jack Brooks Regional Airport, Nederland, and Port Neches on the morning of 28 November 2019. By late morning, winds were projected to increase and trend more from the southeast and south. The main plume trajectory shifted to a northwest direction in the afternoon and towards the Central Gardens area, Lamar University, and the west end of Beaumont.

Air Monitoring

Handheld air monitoring was conducted from 28 November 2019 (06:00) to 29 November 2019 (06:00) at approximately 111 locations in the communities surrounding the incident site by the EPA Team. The air monitoring results were reported below the screening level at all locations for particulates, total VOCs and for 1,3-butadiene.

ASPECT attempted one flight (flight #4) on the morning 28 November 2019, but no data was collected due to unfavorable weather conditions.

From November 28, 2019 (06:00) to November 29, 2019 (06:00), CTEH air monitoring teams collected approximately 1,041 air monitoring readings specifically for 1,3-butadiene in the community and 46 readings in the work area. The air monitoring teams detected 1,3-butadiene at 2 locations in the community. The average detection and maximum concentration in the community was 0.210 ppm and 0.270 ppm, respectively. There were no exceedances of the 1,3-butadiene action level of 0.5 ppm in the community.

CTEH air monitoring teams detected 1,3-butadiene at 13 locations in the work area. The average detection and maximum concentration in the work area was 0.359 ppm and 1.510 ppm, respectively. There were 2 exceedances of the 1,3-butadiene action level of 0.5 ppm in the work area.

TCEQ teams, 4 personnel in the day and 4 at night, also conducted air monitoring during the response.

Air Sampling

CTEH began to collect air samples in the surrounding community areas for laboratory analysis of airborne VOCs and asbestos on 27 November and 28 November 2019. On 28 November air samples were collected from approximately 15 locations surrounding the incident and the greater Port Neches and Groves area to be analyzed for a combination of either VOCs or asbestos.

Whole air samples for VOCs were collected using 1.4-liter evacuated canisters with a 24-hour flow controller. These samples were deployed for 24-hour periods and sent to a third-party accredited laboratory for analysis of VOCs, including 1,3-butadiene, in accordance with the United States Environmental Protection Agency (US EPA) method TO-15.

All asbestos samples were sent to an American Industrial Hygiene Association (AIHA) - accredited laboratory for analysis by NIOSH method 7400 phase contrast microscopy (PCM) and NIOSH method 7402 transmission electron microscopy (TEM).

Water Sampling

CTEH conducted water sampling on behalf of TPC in the downstream spill path in canals and the Neches, southeast of the incident, and collected three samples in total. EPA did not conduct water sampling.

Unified Command gave permission for fluorine free foam use if necessary, for vapor suppression in emergency situations. As of the morning of 28 November 2019, TPC reported no new foam had been utilized for vapor suppression. TPC staged the 6 totes of foam that had previously been utilized for vapor suppression.

Health Consultation

At approximately 15:00 EPA requested a consultation from Agency for Toxic Substances and Disease Registry (ATSDR) regarding assistance in human health matters at the South 4 Group Fire Response. ATSDR responded to EPA and was prepared to provide public health support for Unified Command and the local health authority. ATSDR would review all associated data that had been collected by TCEQ, EPA, and CTEH. TCEQ had already

reached out to the Texas Department of State Health Services (DSHS) for support.

29 November 2019 06:00 to 30 November 2019 06:00

Unified Command

As of 10:00 the Jefferson County Judge lifted the evacuation order enacted on 27 November for areas within the 4-mile radius surrounding the TPC facility, with the exception of designated safety zones in the immediate area of the event. The designated safety zones were defined as:

- No access to Spur 136, north of FM 366
- No access on north end of Magnolia Avenue (FM 366) at Park Street
- No southbound access on FM 366 and Hogaboom Road
- No access at Grigsby Avenue and Spur 136
- Main Street is accessible up to Avenue K and Avenue L and Park

Unified Command cautioned residents that planned to return home to remain aware of the plume location. Due to elevated particulate matter associated with smoke released from the incident, sensitive groups were cautioned that direct exposure to particulates could result in respiratory irritation.

At approximately 11:30 Unified Command received updates from air monitoring teams that due to changing weather conditions particulate matter was concentrated low to the ground and had exceeded the 5-minute action level of 138 ug/m³. The Jefferson County Judge released a statement regarding the elevated particulate matter in the air, and urged people to stay inside, as well as to avoid touching any debris in their yard. Residents were warned that any debris could have contained asbestos containing material (ACM).

EPA agreed to TPC's request to acquire, fluorine-free vapor suppression foam (US Pump Signature Series). The foam was staged near the incident for use if necessary.

Fire Response

On the 29 November there were nine actively fueled fires that burned. The operations team worked to isolate ongoing fires in Block 5 and Block 10. The estimated rate of water use for fire suppression was approximately 19,000 GPM. Water utilized for fire suppression was directed to the JWWTP at 5,000 GPM. The facility developed a block isolation plan to address the fires, which was successful in slowing down some of the fires. To prevent releases of fuel or vapors, the facility was not extinguishing fires where gas was actively leaking. The facility staged additional foam for vapor suppression and firefighting, however the plan was to not utilize the foam unless necessary. Unified Command authorized the use of foam if necessary for safety reasons.

Air Monitoring

Handheld air monitoring was conducted from 29 November 2019 (06:00) to 30 November 2019 (06:00) at approximately 134 locations in the communities surrounding the incident site by the EPA Team. The air monitoring results were reported below the detection limit at all locations for total VOCs and for 1,3-butadiene. 7 locations were reported above the screening level of 138 ug/m³ for particulates.

ASPECT attempted a flight (flight #5) on the morning of 29 November 2019, but could not collect any data due to a low ceiling.

From 29 November 2019 (06:00) to 30 November 2019 (06:00), CTEH air monitoring teams collected approximately 1,205 air monitoring readings specifically for 1,3-butadiene in the community and 36 readings in the work area. CTEH air monitoring teams detected 1,3-butadiene at 25 locations in the community. The average detection and maximum concentration in the community was 0.221 ppm and 1.00 ppm, respectively. There was a single detection north of the site (1.00 ppm) that exceeded the UC action level for 1,3-butadiene at 17:35 in the community.

CTEH air monitoring teams detected 1,3-butadiene at 10 locations in the work area. The average detection and maximum concentration in the work area was 1.055 ppm and 1.620, respectively.

TCEQ teams also conducted air monitoring during the response.

Air Sampling

On 29 November 2019, CTEH collected air samples from approximately 15 locations surrounding the incident and the greater Port Neches and Groves area to be analyzed for a combination of either VOCs or asbestos.

Whole air samples for VOCs were collected using 1.4-liter evacuated canisters with a 24-hour flow controller. These samples were deployed for 24-hour periods and sent to a third-party accredited laboratory for analysis of VOCs, including 1,3-butadiene, in accordance with the United States Environmental Protection Agency (US EPA) method TO-15.

All asbestos samples were sent to an American Industrial Hygiene Association (AIHA) - accredited laboratory for analysis by NIOSH method 7400 phase contrast microscopy (PCM) and NIOSH method 7402 transmission electron microscopy (TEM).

Water Sampling

CTEH conducted water sampling on behalf of TPC in the downstream spill path in canals and the Neches, southeast of the incident and collected 4 samples.

At 16:00, TCEQ air monitoring teams observed a sheen in raw water intake canal for the City of Port Neches. The canal was located northwest of the TPC facility, along Park Street. The sheen, later identified as soot, was noticeable in the section of the canal north of Avenue J. Unified Command was notified, and CTEH collected a water sample.

EPA has planned to begin water sampling, the following day, on 30 November 2019.

Waste Recovery

TPC stated that Resolute had placed 2500' of boom at 201 Outfall, Orchard Avenue, Pine Street., Lift Station, Sarah Jane Road, Huntsman 004 Outfall, and Neches Rivers.

Health Consultation

At approximately 15:00 on 29 November ATSDR contacted EPA regarding the request on 28 November to review all air monitoring data collected to date for human health considerations.

ATSDR's consultation stated that none of the environmental monitoring results reviewed to date report butadiene concentrations above the TCEQ's long-term health comparison value of 9 ppb, and therefore the concentrations of butadiene reported were below the levels of potential health concern. However, due to the flammability of butadiene, that was likely because most of the product had been consumed by the fire. ATSDR stated that once the fire is out, there could be a release of butadiene from damaged tanks at a rate insufficient to sustain combustion. ATSDR recommended air monitoring to continue after the fire has gone out until an assessment of the site has confirmed that product has not leaked from any tanks potentially damaged by the explosion and fire.

30 November 2019 06:00 to 01 December 2019 06:00

Unified Command

Unified Command carried out plans agreed upon in Incident Action Plan (IAP) – Period 2.

TPC released information that residents and property owners impacted by the event should call 1-866-601-5880 to file insurance claims.

On 30 November 2019 TPC shared with Unified Command that 16 of the tanks in the facility had sustained damage. TPC stated that 3 of the 16 tanks sustained severe damage and released contents. TPC also determined the content level of the 16 damaged tanks prior to the incident, and stated the other 86 tanks in the facility were not harmed. TPC has continued to assess the 16 damaged tanks to determine the current levels of product utilizing drones with infrared capabilities.

Tank Numbers	Block Location	Content	Tank Condition	Content level at time of incident (Barrels)
40	Block 5	Raff	Impacted	3214
106	Block 10	OOS	Impacted	-
73	Block 10	NMP	Destroyed	0
72	Block 10	NMP	Destroyed	823
38	Block 5	Polyblend	Impacted	910
36	Block 5	HB Raff	Impacted	4897
35	Block 5	HB Raff	Impacted	5122
91	Block 5	BD	Impacted	719
34	Block 5	HB Raff	Destroyed	327
33	Block 5	HB Raff	Impacted	388
90	Block 5	BD	Impacted	5276
25	Block 9	Crude C4	Impacted	3396
30	Block 9	Rich Solvent	Impacted	1265
31	Block 9	OOS	Impacted	-
69	Block 9	OOS	Impacted	-
59	Block 4	OOS	Impacted	-
106	Block 10	OOS	Destroyed	-

Notes:

OOS – Out of Service

HB Raffinate – High Butane Raffinate

BD – 1,3-butadiene

NMP - N-methylpyrrolidone

Fire Response

At approximately 02:00, all fires in Block 5 were extinguished. Three actively fed fires were still burning in the Block 10 area. Estimated rate of water used for fire suppression was approximately 31,000 GPM (7,000 GPM recycled water, 24,000 freshwater). The JWWTP continued to pump firefighting runoff water from storage ponds to

the JWWTP at a pumping rate of approximately 6,900 GPM.

Firefighting runoff water overtopped the tank containment berm. The runoff water discharged to the 201 Canal, which leads to a permitted containment discharge area. The facility's Oil Spill Response Organization (OSRO) placed absorbent boom every 50-60 feet within the canal.

At approximately 23:20, South 45-B tower, which had been leaning since the initial explosion, collapsed near the actively burning area, and landed on a pipe rack. Response personnel stated a natural gas odor was present in the area, and evacuated to the muster station. An accountability check was performed at the muster station prior to relocating further away from the incident site.

Air Monitoring

Handheld air monitoring was conducted from 30 November 2019 (06:00) to 01 December 2019 (06:00) at approximately 82 locations in the communities surrounding the incident site by the EPA Team. The air monitoring results were reported below the screening level at all locations for particulates, total VOCs, and for 1,3-butadiene.

ASPECT completed two flights on 30 November 2019; one in the morning (flight #6) and one in the afternoon (flight #7). Analysis of imagery showed light grey plume of smoke being generated at the facility. Analysis of Infrared (IR) imagery collected at the facility indicated that thermal conditions at the site continue to show a decrease in intensity. IR imagery also indicated no sheen signature at the confluence of the waterway and the Neches River. There were no chemical detections during either flight.

From 30 November 2019 (06:00) to 01 December 2019 (06:00), CTEH air monitoring teams collected approximately 1,540 air monitoring readings specifically for 1,3-butadiene in the community and 147 readings in the work area. CTEH air monitoring teams detected 1,3-butadiene at 12 locations in the community. The average detection and maximum concentration in the community was 0.300 ppm and 1.00 ppm, respectively. There were 3 detections north of the site (between 0.63 – 1.00 ppm) that exceeded the UC action level for 1,3-butadiene.

CTEH air monitoring teams detected 1,3-butadiene at 1 location in the work area. The maximum concentration in the work area was 1.690 ppm. The 1 detection exceeded the UC action level for 1,3-butadiene in the work area. There were 6 detections that exceeded the UC action level for 1,3-butadiene in the work area.

TCEQ teams also conducted air monitoring from 30 November 2019 (06:00) to 01 December 2019 (06:00).

Air Sampling

On 30 November 2019, CTEH collected air samples from approximately 25 locations surrounding the incident and the greater Port Neches and Groves area to be analyzed for a combination of either VOCs, PAHs asbestos.

In addition, air samples were collected over 24-hour periods using sampling air pumps with chemical-specific sorbent media and were analyzed for PAHs according to the NIOSH Method 5506. Integrated air sampling was also conducted to document and quantify the any presence of airborne asbestos fibers.

Water Sampling

CTEH performed water sampling on behalf of TPC in the downstream spill path in canals and the Neches, southeast of the incident. CTEH collected another water sample from the City of Port Neches water intake canal along Park Street, northwest of TPC.

The EPA Team began conducting surface water sampling on 30 November 2019 at 4 sample locations in canals downstream (southeast) of the incident and in the Neches River.

The sample locations were:

- TPC-01 Outfall 201 Canal - Orchard Ave Bridge
- TPC-02 Star Lake Canal - Port Neches Road Bridge
- TPC-04 Confluence of Star Lake Canal and Neches River
- TPC-05 Neches River at Port Neches Park, upstream background

The EPA samples were submitted for analysis of VOCs, semi-volatile organic compounds (SVOCs), oil and grease (O&G), glycols, total organic carbon (TOC), and total petroleum hydrocarbons (TPH). The EPA samples were delivered to Eurofins-Test America (Houston, Texas).

EPA received the preliminary lab reports for the samples collected 30 November and 1 December 2019, analyzed by Eurofins-Test America.

The results from the sampling event will be compared to the TCEQ Surface Water Quality Standards (WQS) or to TCEQ Texas Risk Reduction Program surface water protective concentration levels (PCLs), if a WQS was not available for a chemical.

Waste Recovery

As of 30 November 2019 approximately 26,000 gallons of liquid has been recovered by TPC to date. The 18" hard boom and 8,350' of sorbent boom remained in place along the Outfall 201 Canal and Star Lake Canal.

Wildlife Response Actions

On 30 November 2019, Wildlife Response Services (WRS) personnel were activated to assist in a wildlife planning role for the incident. To date, no live, oiled wildlife had been observed.

01 December 2019 06:00 to 02 December 2019 06:00

Unified Command

Unified Command carried out plans agreed upon in Incident Action Plan (IAP) – Period 3.

Fire Response

As of 15:00, 2 pressure fires continued to burn, and TPC continued to provide suppression to the incident. Estimated rate of water used for fire suppression was approximately 14,000 GPM (7,000 GPM recycled water,

7,000 freshwater). The JWWTP continued pumping firefighting runoff water from storage ponds to the JWWTP at a pumping rate of approximately 7,000 GPM.

Air Monitoring

Handheld air monitoring was conducted from 01 December 2019 to 02 December 2019 at approximately 146 locations in the communities surrounding the incident site by the EPA Team. The air monitoring results were reported below the screening level at all locations for particulates, total VOCs and for 1,3-butadiene.

ASPECT completed two flights on 01 December 2019; one in the morning (flight #8) and one in the afternoon (flight #9). IR imagery collected indicated isolated elevated thermal locations still exist in the facility. Analysis of imagery confirmed reports of light gray smoke was emitted and moving east of the facility, and 4 water cannons were being employed at the facility. Analysis of IR imagery collected at the confluence of the waterway and the Neches River showed no sheen signature. Analysis of FTIR data showed detections of isobutylene near the Orchard Avenue bridge in the morning and to south of the facility near the wastewater treatment plant in the afternoon. These detections were approximately 1.0 ppm and 1.7 ppm between the flights conducted in the morning and in the afternoon.

From 01 December 2019 (06:00) to 02 December 2019 (06:00), CTEH air monitoring teams collected approximately 1,733 air monitoring readings specifically for 1,3-butadiene in the community and 290 readings in the work area. CTEH air monitoring teams detected 1,3-butadiene at 4 locations in the community. The average detection and maximum concentration in the community was 0.095 ppm and 0.110 ppm, respectively. There were no exceedances of the UC action level for 1,3-butadiene in the community.

CTEH air monitoring teams detected 1,3-butadiene at 33 locations in the work area. The average detection and maximum concentration in the work area was 0.555 ppm and 1.800 ppm, respectively. There were 10 exceedances of the UC action level for 1,3-butadiene in the work area.

TCEQ teams also conducted air monitoring from 01 December 2019 to 02 December 2019.

Air Sampling

On 01 December 2019, CTEH collected air samples from approximately 25 locations surrounding the incident and the greater Port Neches and Groves area to be analyzed for a combination of either VOCs, PAHs asbestos.

Water Sampling

CTEH performed water sampling on behalf of TPC in the downstream spill path in canals and the Neches, southeast of the incident.

EPA conducted surface water sampling on 1 December 2019 at 4 locations downstream (southeast) of the incident, and in the Neches River.

The sample locations were:

- TPC-01 Outfall 201 Canal - Orchard Ave Bridge
- TPC-02 Star Lake Canal - Port Neches Road Bridge
- TPC-04 Confluence of Star Lake Canal and Neches River
- TPC-05 Neches River at Port Neches Park, upstream background

EPA received the preliminary lab reports for the samples collected 30 November and 1 December 2019, analyzed by Eurofins-Test America in Houston, TX.

The results from the sampling event will be compared to the TCEQ WQS or to TCEQ Texas Risk Reduction Program surface water PCLs, if a WQS was not available for a chemical.

Asbestos Community Assessment

Beginning on 01 December 2019, CTEH initiated observational assessments and collection of potential facility-related debris in the adjacent community near the TPC facility. These observational assessments, debris collection, and sampling events were driven by concerns over bulk debris potentially containing asbestos, which may have been dislodged or mechanically disturbed during the South 4 Group Fire and subsequently transported to off-site locations. The property assessments were conducted at various locations, including residential, commercial, and public areas, within the community surrounding the TPC facility.

Following the field collection of potential facility-related debris, samples were sent to an American

Industrial Hygiene Association (AIHA)-accredited laboratory for analysis. Bulk samples were analyzed for the asbestos content and fibers using the EPA 600/R-93/116 Method involving polarized light microscopy. In addition to bulk sample analysis, CTEH collected wipe samples to verify the presence/absence of asbestos fibers on both indoor and/or outdoor surfaces associated with residences that reported potential terminal debris on their property. Wipe samples were analyzed for the presence of asbestos fibers via American Society for Testing and Materials Method 6480.

On 01 December 2019, CTEH collected 6 bulk samples from locations in Orange, TX. Asbestos (chrysotile) was detected in all 6 samples from 5 – 7 %. CTEH also collected 3 property assessment wipe samples (2 in Orange, TX, 1 in Port Neches, TX). No asbestos was detected in the 3 wipe samples.

Waste Recovery

On 01 December 2019, approximately 18,000 gallons of liquid were recovered by TPC, bringing the total volume of waste recovered to 44,000 gallons of liquid. The 18" hard boom and 8,350' of sorbent boom remained in place along the Outfall 201 Canal and Star Lake Canal.

A Rapid Assessment Team was stood up today to assess recovery needed in each division.

- Division A: Outfall 001 to Orchard Avenue
- Division B: Orchard Avenue to the weir dam in the canal
- Division C: Weir dam in the canal to Atlantic Road.

Division D: Atlantic Road bridge the confluence of the Neches River, including the outfall west of the powerline right-of-way.

Division E: Huntsman 004 outfall canal from Star Lake Canal to Port Neches Atlantic Road

Wildlife Response Action

WRS mobilized to the EOC. WRS initiated planning for wildlife operations and conducted a survey of the area.

02 December 2019 06:00 to 03 December 2019 06:00

Unified Command

Unified Command carried out plans agreed upon in Incident Action Plan (IAP) – Period 4.

At approximately 10:30 U.S. Congressman Randy Weber of District 14 visited the EOC.

A Shoreline Cleanup Assessment Technique (SCAT) team was stood up with representation from state (TCEQ), federal (USCG), and TPC contractors.

Fire Response

As of 06:00, 2 pressure fires continued to burn. TPC continued to provide approximately 9,000 GPM of water to the Block 10 area in order to cool surrounding tanks and also for vapor suppression. Approximately 3,000 GPM of water utilized was recycled, and the remaining 6,000 GPM was treated in the JWWT. As of 08:00, 1 pressure fire remained. At approximately 08:50, there was a flash fire and it was thought that an additional tower fell. Operations reviewed drone footage and determined no additional towers fell.

Air Monitoring

Handheld air monitoring was conducted from 02 December 2019 to 03 December 2019 at 130 locations in the communities surrounding the incident site by the EPA Team. The air monitoring results were reported below the screening level at all locations for particulates, total VOCs and for 1,3-butadiene.

ASPECT completed two flights on 02 December 2019; one in the morning (flight #10) and one in the afternoon (flight #11). IR imagery collected showed no elevated temperature sources other than local solar heating of metal surfaces. Analysis of imagery showed no indication of an active fire or emissions. Aerial imagery showed one water cannon in operation and light gray smoke being emitted from the facility due to the one fire. Analysis of IR imagery collected at the confluence of the waterway and the Neches River showed no sheen signature. Analysis of FTIR data showed detections of isobutylene south of the facility near the wastewater treatment plant. These detections were approximately 1.57 ppm on two separate passes conducted in the afternoon. There were no chemical detections during the morning flight.

From 02 December 2019 (06:00) to 03 December 2019 (06:00), CTEH air monitoring teams collected approximately 1,488 air monitoring readings specifically for 1,3-butadiene in the community and 286 readings in the work area. CTEH air monitoring teams detected 1,3-butadiene at 16 locations in the community. The average detection and maximum concentration in the community was 0.149 ppm and 0.450 ppm, respectively. There were no exceedances of the UC action level for 1,3-butadiene in the community.

CTEH air monitoring teams detected 1,3-butadiene at 33 locations in the work area. The average detection and maximum concentration in the work area was 0.720 ppm and 5.1 ppm, respectively. There were 9 exceedances of the UC action level for 1,3-butadiene in the work area.

TCEQ teams also conducted air monitoring from 02 December 2019 (06:00) to 03 December 2019 (06:00).

Air Sampling

On 02 December 2019, CTEH collected air samples from approximately 25 locations surrounding the incident and the greater Port Neches and Groves area to be analyzed for a combination of either VOCs, PAHs asbestos.

Water Sampling

CTEH performed water sampling on behalf of TPC in the downstream spill path in canals and the Neches, southeast of the incident.

EPA did not conduct water sampling on 2 December 2019, but resumed sampling on 3 December 2019, adding two additional sample locations (TPC-06 (Outfall 201 Canal) and TPC-07 (Huntsman Outfall 004)). EPA continued to have samples analyzed for VOCs SVOCs, O&G, glycols, TOC, and TPH. EPA also submitted samples for analysis for three specific PFAS compounds: Perfluorohexanesulfonic acid, Perfluoroctane Sulfonate, and Perfluorooctanoic acid.

Waste Recovery

On 02 December 2019, approximately 9,375 gallons of liquid were recovered by TPC, bringing the total volume of waste recovered to 53,375 gallons of liquid. The 18" hard boom and 8,350' of sorbent boom remained in place along the Outfall 201 Canal and Star Lake Canal.

Asbestos Community Assessment

On 02 December 2019, CTEH collected 18 total bulk samples, from 16 properties located in Port Neches, TX and 2 locations at the Huntsman Water Treatment Facility. Asbestos (chrysotile) was detected in 14 of the property samples at 4 – 23 %. Asbestos was not detected in the bulk samples collected from the Huntsman Water Treatment Facility. CTEH also collected 13 property assessment wipe samples from affected properties (1 in Port Arthur, TX, 12 in Port Neches, TX). No asbestos was detected in the 13 wipe samples.

Wildlife Response Actions

The Wildlife Hotline Number was established in the morning. A WRS employee maintained the hotline, documenting all calls. WRS also investigated facilities for a suitable wildlife rehabilitation center, if necessary. Once the facility is determined, the address will be published in the wildlife management plan.

Overall summary of carcasses observed impacted – not collected:

- 2,000 shad (1" – 3") (approximately) – observed by TCEQ
- 30 bass, catfish, and red drum (approximately) – observed by TCEQ
- 24 blue crabs – observed by TCEQ
- 1 alligator – observed by operations
- 2 blue teal ducks – observed by TCEQ

03 December 2019 06:00 to 04 December 2019 06:00

Unified Command

Unified Command carried out plans agreed upon in Incident Action Plan (IAP) – Period 5.

EPA, with the support of Unified Command, requested an onsite representative from ATSDR to mobilize to the EOC to review data (air monitoring, surface water sampling, asbestos assessments) from the start of the incident on 27 November.

Fire Response

As of approximately 06:00, 1 pressure fire continued to burn. TPC continued to provide approximately 14,000 GPM of water to the Block 10 area in order to cool surrounding tanks and vapor suppression. Approximately 6,000 GPM of water utilized was recycled, and the remaining 8,000 GPM was being treated in the JWWT.

As of approximately 19:00, the final pressure fire naturally extinguished.

Air Monitoring

From 03 December (06:00) to 04 December 2019 (06:00), EPA air monitoring teams collected readings at 91 locations in the communities surrounding the incident site by the EPA Team. The air monitoring results were reported below the screening level at all locations for particulates, total VOCs and for 1,3-butadiene.

ASPECT completed two flights on 03 December 2019, one in the morning (flight #12) and one in the afternoon (flight #13). IR imagery collected showed no elevated temperature sources other than local solar heating of metal surfaces. Analysis of imagery showed no indication of an active fire or emissions. Analysis of IR imagery collected at the confluence of the waterway and the Neches River showed no sheen signature. Data collected on the afternoon flight did show the presence of 1,3-butadiene and aromatics 1300 meters west of the facility. Detected levels were approximately 0.93 ppm for 1,3-butadiene and less than 1 ppm for aromatics. There were no chemical detections during the morning flight.

From 03 December 2019 (06:00) to 04 December 2019 (06:00), CTEH air monitoring teams collected approximately 1,492 air monitoring readings specifically for 1,3-butadiene in the community and 308 readings in the work area. CTEH air monitoring teams detected 1,3-butadiene at 60 locations in the community. The average detection and maximum concentration in the community was 0.253 ppm and 1.350 ppm, respectively. There were 3 detections that exceeded the UC action level for 1,3-butadiene in the community.

CTEH air monitoring teams detected 1,3-butadiene at 21 locations in the work area. The average detection and maximum concentration in the work area was 2.600 ppm and 13.60 ppm, respectively. There were 15 detections that exceeded the UC action level for 1,3-butadiene in the work area.

TCEQ teams also conducted air monitoring from 03 December 2019 (06:00) to 04 December 2019 (06:00).

Air Sampling

On 03 December 2019, CTEH collected air samples from approximately 30 locations surrounding the incident and the greater Port Neches and Groves area to be analyzed for a combination of either VOCs, PAHs asbestos.

Water Sampling

EPA conducted surface water sampling on 03 December 2019 at 6 sample locations downstream (southeast) of the incident and in the Neches River.

The sample locations were:

- TPC-01 Outfall 201 Canal – Orchard Avenue Bridge
- TPC-02 Port Neches Road Bridge and Star Lake Canal
- TPC-04 Confluence of the Star Lake Canal and the Neches River
- TPC-05 Port Neches Park, upstream background
- TPC-06 Outfall 201 Canal – The Weir
- TPC-07 Huntsman Outfall 004

The EPA samples were submitted for analysis for PFAS [specifically Perfluorohexanesulfonic acid, Perfluorooctane Sulfonate, and Perfluorooctanoic acid]. VOCs, SVOCs, O&G, glycols, TOC, and TPH. The EPA samples were delivered to three laboratories: Eurofins-Test America (Houston, Texas), ALS (Houston, Texas), and ALS (Holland, Michigan). Samples analyzed under PFAS method 537 were delivered to ALS, Houston and samples analyzed under PFAS method 8327 were delivered to ALS, Holland.

EPA received the preliminary lab reports for the samples collected 30 November and 01 December 2019, analyzed by Eurofins-Test America.

Waste Recovery

On 03 December 2019, approximately 8,125 gallons of liquid were recovered by TPC, bringing the total volume of waste recovered to 61,500 gallons of liquid. The 18" hard boom and 8,350' of sorbent boom remained in place along the Outfall 201 Canal and Star Lake Canal.

SCAT Team of state, federal, and TPC personnel began to assess shoreline of canals downstream from the

incident. Operations have completed an initial flushing through Division A, and the reduction in observable oil was noticeable. The remaining oil on water had become more weathered and emulsified. SCAT Teams plan to continue point observations in remaining un-surveyed shoreline in Division B, then continuing to Division C and E.

Asbestos Community Assessment

On 03 December 2019, CTEH collected 1 bulk sample from a location in Port Neches, TX. Asbestos (chrysotile) was detected in the samples at 2%. CTEH also collected 39 property assessment wipe samples (27 in Orange, TX, 5 in Port Arthur, TX, 7 in Port Neches, TX). No asbestos was detected in the 39 wipe samples.

Wildlife Response Actions

WRS and Texas Parks and Wildlife Department (TPWD) continued surveying the canals downstream of the incident for impacted wildlife.

Overall Summary of Wildlife Collected at Incident Site:

- 28 White Bass (collected by TPWD)
- 7 Yellow Bass (collected by TPWD)
- 3 Bluegill (collected by TPWD)
- 1 Spotted Sunfish (collected by TPWD)
- 2 Red Ear Sunfish (collected by TPWD)
- 1 Alligator Gar (collected by TPWD)
- 1 Blue Catfish (collected by TPWD)
- 8 Striped Mullet (collected by TPWD)
- 3 Green Sunfish (collected by TPWD)

04 December 2019 06:00 to 05 December 2019 06:00

Unified Command

Unified Command carried out plans agreed upon in Incident Action Plan (IAP) – Period 6.

Following further discussion among Unified Command on the morning of 04 December 2019, an additional action level was developed for 1,3-butadiene (sustained 10 minute reading for 1.5 ppm) that would be utilized for the Jefferson County Judge to recommend for shelter-in-doors.

At 17:00 Unified Command began to receive reports from air monitoring personnel of detections of 1,3 butadiene that exceeded the action level of 0.5 ppm south of the facility in the neighborhoods that are south of Magnolia/366 and bounded between Earle Street and Merriman Street. Port Neches Chief Paul Nelson issued a shelter-in-doors for the City of Port Neches, based on air monitoring results and consistent northerly wind patterns. The shelter-in-doors will remain in effect until the following morning of 5 December 2019 at 06:00. Unified Command continued to monitor air in the community downwind of the TPC facility.

Due to the shelter-in-doors, on-going detections of 1,3-butadiene, and out of an abundance of caution, Port Neches-Groves ISD cancelled school for the remainder of the week.

At approximately 22:00, the Jefferson County Judge issued a voluntary evacuation order for the City of Port Neches, based on current conditions and out of an abundance of caution.

Fire Response

As of 04 December 2019, the fire remained extinguished. Operations continued to utilize up to 6,000 - 8,000 GPM to the incident area every 2 hours for vapor suppression and cooling the tanks. A valve on Tank 25 leaked vapors throughout the day, which intensified in the evening as winds out of the north pushed the plume to the communities south of Hwy 366.

Air Monitoring

From 04 December (06:00) to 05 December 2019 (06:00), EPA air monitoring teams collected readings at 112 locations in the communities surrounding the incident site by the EPA Team. The air monitoring results were reported above the screening level at two locations for 1,3-butadiene (based upon applying the correction factor to the VOC reading) and one location for VOCs.

ASPECT completed two flights on 04 December 2019, one in the morning (flight #14) and one in the afternoon (flight #15). Analysis of IR imagery collected showed no elevated temperature sources other than local solar heating of metal surfaces. Analysis of imagery showed no indication of an active fire or emissions. Aerial imagery showed one cannon being employed to spray a spherical tank south of the production unit. Analysis of IR imagery collected at the confluence of the waterway and the Nечес River showed no sheen signature. There were no chemical detections during either flight.

From 04 December 2019 (06:00) to 05 December 2019 (06:00), CTEH air monitoring teams collected approximately 1,568 air monitoring readings specifically for 1, 3-butadiene in the community and 468 readings in the work area. CTEH air monitoring teams detected 1,3-butadiene at 351 locations in the community. The average detection and maximum concentration in the community was 1.292 ppm and 12.090 ppm, respectively. There were 211 detections that exceeded the UC action level for 1,3-butadiene in the community.

CTEH air monitoring teams detected 1,3-butadiene at 201 locations in the work area. The average detection and maximum concentration in the work area was 2.709 ppm and 17.070 ppm, respectively. There were 175 detections that exceeded the UC action level for 1,3-butadiene in the work area.

TCEQ teams also conducted air monitoring from 04 December (06:00) to 05 December 2019 (06:00).

Air Sampling

On 04 December 2019, CTEH collected air samples from approximately 30 locations surrounding the incident and

the greater Port Neches and Groves area to be analyzed for a combination of either VOCs, PAHs asbestos.

Water Sampling

EPA created analytical summary tables for the samples that were collected on 30 November and 01 December 2019. On 30 November 2019, the surface water sample collected at TPC-01 exceeded the PCL for methyl tert-butyl ether (MTBE), and the surface water sample collected at TPC-02 exceeded the PCL for benzene and for MTBE.

On 1 December 2019, the surface water sample collected at TPC-01 and TPC-02 exceeded the PCL for MTBE. No PCLs were exceeded upon analyzing TPC-04 (confluence sample) and TPC-05 (background).

EPA did not conduct water sampling on 04 December 2019, but will resume sampling on 05 December 2019.

Waste Recovery

On 04 December 2019, approximately 15,000 gallons of liquid were recovered by TPC, bringing the total volume of waste recovered to 76,500 gallons of liquid. The 18" hard boom and 8,350' of sorbent boom remained in place along the Outfall 201 Canal and Star Lake Canal.

Wildlife Response Actions

As of 04 December 2019, one dead fish was reported in Division C.

Asbestos Community Assessment

On 04 December 2019, CTEH collected 20 bulk samples (3 in Bridge City, TX, 7 in Port Arthur, TX and 10 in Port Neches, TX). Asbestos (chrysotile) was detected in 14 of the samples at 4 – 55%. CTEH also collected 15 property assessment wipe samples (4 in Bridge City, TX, 1 inn Port Arthur, TX, and 10 in Port Neches, TX). No asbestos was detected in the 15 wipe samples.

Operational Period 06:00 to 06:00	CTEH Community Air Monitoring					
	Analyte	Total Readings	Detections	Average Detection (ppm)	Maximum Concentration (ppm)	Community Detections above Action Level
11/27 0:00 to 11/28	1,3-butadiene	442	11	0.160	0.210	0
11/28 to 11/29	1,3-butadiene	1041	2	0.210	0.270	0
11/29 to 11/30	1,3-butadiene	1205	25	0.221	1.00	1
11/30 to 12/01	1,3-butadiene	1540	12	0.300	1.00	3
12/01 to 12/02	1,3-butadiene	1733	4	0.095	0.110	0
12/02 to 12/03	1,3-butadiene	1488	16	0.149	0.450	0
12/03 to 12/04	1,3-butadiene	1492	60	0.253	1.350	3
12/04 to 12/05	1,3-butadiene	1568	351	1.292	12.090	211

Notes: BD - 1,3-butadiene

No wastes have been profiled or sent for disposal as of the date of this POLREP.

Tank Number	Content	Tank Condition	Tank Volume (prior to incident)

2.2 Planning Section

2.2.1 Anticipated Activities

TPC will contain and recover liquid spillage and fire water. Air monitoring efforts will continue in the impacted area and downwind community. Fire suppression and vapor suppression activities will continue. Unified Command will continue to share information with the stakeholders and community. Unified Command will continue to communicate any air monitoring measurements in the community above Unified Command approved community

action levels to local authorities for actions to be determined and communicated to the community. Actions may include shelter-in-doors or evacuation.

2.2.1.1 Planned Response Activities

Continue air monitoring throughout the impacted area and downwind community.
Contain and recover released liquids.
Continue fire suppression and vapor suppression, if needed.
Continue communicating status to the community.

2.2.1.2 Next Steps

2.2.2 Notes

The day of the incident Unified Command established the following air monitoring action levels. The action levels were all based upon collecting a sustained reading of 5 minutes. If any representative under Unified Command recorded an exceedance above the action level, a strike team would be sent to the location to confirm the reading. In most all instances where an exceedance will be measured, multiple ground air monitoring teams would be redirected to the location for confirmation by multiple teams and multiple air monitoring instruments.

- Volatile Organic Compounds (VOCs) at 5 parts per million (ppm)
- 1,3-butadiene at 0.5 ppm
- Particulate Matter (PM 2.5) at 138 ug/m³

Following further discussion among Unified Command on 04 December 2019, a Community Action Level was established for 1,3-butadiene that would be utilized for the Jefferson County Judge to recommend citizens to shelter-in-doors or evacuate, if the reading was sustained for 10 minutes.

- 1,3-butadiene at 1.5 ppm

2.3 Logistics Section

NA

2.4 Finance Section

NA

2.5 Other Command Staff

NA

3. Participating Entities

3.1 Unified Command

Unified Command was established on 11/27/2019 with TPC, EPA, TCEQ, and Jefferson County Judge's Office.

3.2 Cooperating Agencies

Additional agencies that have responded or are responding include OSHA, USCG, NOAA, local emergency management, Port Neches Police Department, DPS, Civil Support Team, Texas Department of Emergency Management, Jefferson County Sheriff's Office, Port Neches Fire Department, Nederland Fire Department, Port Arthur Fire Department, Groves Fire Department, Silsbee Volunteer Fire Department, Port Arthur Police Department, Golden Triangle Incident Management Team, Southeast Texas Regional Advisory Council, Groves Police Department, Nederland Police Department, Port Neches Police Department, Jefferson County Office of Emergency Management, Acadian Emergency Management Services, Texas General Land Office, Texas Highway Patrol, Lower Neches Valley Authority, and Drainage District #7. This list is not all inclusive.

4. Personnel On Site

Representatives from participating agencies are present at their discretion.

5. Definition of Terms

Listed in Order of Appearance in this document:

TPC Group – TPC

JWWT – joint waste water treatment plant

Sabine-Neches Chief Association – SNCA

National Response Center - NRC

Texas Commission on Environmental Quality – TCEQ

USCG – US Coast Guard

VOC – volatile organic compound

Particulate Matter – PM 2.5

ISD – Independent School District (ISD)

Emergency Operations Center - EOC

On-Scene Coordinator - OSC

Superfund Technical Assessment Response Team - START

Airborne Spectral Photometric Environmental Collection Technology - ASPECT

General Land Office - GLO

Center for Toxicology and Environmental Health LLC - CTEH

ACM – Asbestos Containing Material

UC – Unified Command

HB – High butane

NMP – N-methylpyrrolidone

Infrared Imagery - IR

American Industrial Hygiene Association - AIHA

Semi-volatile organic compounds - SVOCs

Oil and grease - O&G

Total organic carbon - TOC

Total petroleum hydrocarbons TPH

per- and polyfluoroalkyl substances - PFAS

Agency for Toxic Substances and Disease Registry – ATSDR

Department of State Health Services - DSHS

Water Quality Standards - WQS

Protective Contaminant Levels - PCLs

methyl tert-butyl ether - MTBE

Wildlife Response Services – WRS

TPWD – Texas Parks Wildlife Department

6. Additional sources of information

6.1 Internet location of additional information/report

Additional information can be obtained at www.response.epa.gov/south4groupfire.

6.2 Reporting Schedule

Additional POLREP's will be provided as needed. A Final POLREP will be submitted upon completion.

7. Situational Reference Materials

Additional situation materials are provided in the documents tab on the EPA website.